

Art Unit: 1764

wall of 7-56362 in the apparatus of Hirayama et al in order to ensure the necessary flow direction of the materials during operation of the device.

Hirayama et al disclose that temperature control of the regions of the apparatus is necessary (col. 10, lines 36-46) but does not disclose a means of doing achieving this function. Japanese document 5-23321 discloses a heat transfer surfaces (80) and (91) through the heat recovery region of a gasification surface. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a heat transfer surface as taught by 5-23321 in the apparatus of Hirayama et al since it is merely a selection of temperature control means known to be effective in the art.

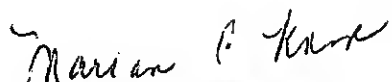
Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Alexa Doroshenk, whose telephone number is (703) 305-0074. The examiner can normally be reached on Monday-Friday from 8:30 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marian Knode, can be reached on (703) 308-4311.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

AAD

March 20, 2000


MARIAN C. KNODE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 11/10/98 are:

- A. ☒ approved by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. ☐ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

<p>1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink. Color. <u>Fig(s)</u> Color drawings are not acceptable until petition is granted. Pencil and non-black ink not permitted. Fig(s) <u>Fig(s)</u> 2. PHOTOGRAPHS. 37 CFR 1.84 (b) 1 full-tone set is required. Fig(s) <u>Fig(s)</u> Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) <u>Fig(s)</u> Poor quality (half-tone). Fig(s) <u>Fig(s)</u> 3. TYPE OF PAPER. 37 CFR 1.84(c) Paper not flexible, strong, white, and durable. Fig(s) <u>Fig(s)</u> Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) <u>Fig(s)</u> Mylar, velum paper is not acceptable (too thin). Fig(s) <u>Fig(s)</u> 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.6 cm by 27.9 cm (8 1/2 x 11 inches) All drawing sheets not the same size. Sheet(s) <u>Fig(s)</u> Drawings sheets not an acceptable size. Fig(s) <u>Fig(s)</u> 5. MARGINS. 37 CFR 1.84(g): Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm. SIZE: 8 1/2 x 11 Margins not acceptable. Fig(s) <u>Fig(s)</u> Top (T) Left (L) Right (R) Bottom (B) 6. VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes. Partial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) <u>Fig(s)</u> Views not labeled separately or properly. Fig(s) <u>Fig(s)</u> Enlarged view not labeled separately or properly. Fig(s) <u>Fig(s)</u> 7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3) Hatching not indicated for sectional portions of an object. Fig(s) <u>Fig(s)</u> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) <u>Fig(s)</u></p>	<p>8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i) Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) <u>Fig(s)</u> 9. SCALE. 37 CFR 1.84(k) Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) <u>Fig(s)</u> 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l) Lines numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) <u>Fig(s)</u> 11. SHADING. 37 CFR 1.84(m) Solid black areas pale. Fig(s) <u>Fig(s)</u> Solid black shading not permitted. Fig(s) <u>Fig(s)</u> Shade lines pale, rough and blurred. Fig(s) <u>Fig(s)</u> 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p) Numbers and reference characters not plain and legible. Fig(s) <u>Fig(s)</u> Figure legends are poor. Fig(s) <u>Fig(s)</u> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) <u>Fig(s)</u> English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) <u>Fig(s)</u> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) <u>Fig(s)</u> 13. LEAD LINES. 37 CFR 1.84(q) Lead lines cross each other. Fig(s) <u>Fig(s)</u> Lead lines missing. Fig(s) <u>Fig(s)</u> 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i) Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) <u>Fig(s)</u> 15. NUMBERING OF VIEWS. 37 CFR 1.84(u) Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) <u>Fig(s)</u> 16. CORRECTIONS. 37 CFR 1.84(w) Corrections not made from prior PTO-948 dated <u>Fig(s)</u> 17. DESIGN DRAWINGS. 37 CFR 1.152 Surface shading shown not appropriate. Fig(s) <u>Fig(s)</u> Solid black shading not used for color contrast. Fig(s) <u>Fig(s)</u></p>
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COMMENTS

REVIEWER LAM

DATE 09/13/99 TELEPHONE NO. Fig(s)

ATTACHMENT TO PAPER NO. 3